

Title (en)  
DEVICE FOR THE INDUCTIVE TRANSFER OF ELECTRIC ENERGY

Title (de)  
VORRICHTUNG ZUR INDUKTIVEN ÜBERTRAGUNG ELEKTRISCHER ENERGIE

Title (fr)  
SYSTÈME DE TRANSFERT INDUCTIF D'ÉNERGIE ÉLECTRIQUE

Publication  
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Application  
**EP 10730480 A 20100712**

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Abstract (en)  
[origin: CA2766960A1] The invention relates to a device for the inductive transfer of electric energy from a stationary unit comprising at least one primary inductance to a vehicle that is adjacent to said unit and has at least one second inductance. The stationary unit or the vehicle has a device for detecting the presence of an object in a predetermined area that covers at least the area lying between the primary inductance and the second inductance during the inductive energy transfer. The detection device has at least one contactless sensor and an evaluation unit that is connected to the sensor. At least the sensor of the detection device is integrated into or mounted on the same housing as the primary or secondary coil of the energy transfer device. The sensor can be an ultrasonic sensor, radar sensor, infra-red sensor or an electric image sensor.

IPC 8 full level  
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Citation (opposition)  
Opponent :  
• EP 0379465 A1 19900725 - RIETER AG MASCHF [CH]  
• DE 19741279 A1 19990325 - SALCOMP OY [FI], et al  
• DE 102007033654 A1 20080424 - SEW EURODRIVE GMBH & CO [DE]

Cited by  
DE102018206592A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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